

# CABENCH-TO-BEDSIDE ADMIN MODULE V2.1

## *Installation Guide*

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# Chapter 1 Introduction

The **caB2B admin** is a web application which enables you to perform the following actions:

1. Define categories to be queried.
2. Load new models from caDSR.
3. Curate path between categories.
4. Define the service instances to be used.

This is a web based application. A user with administrative rights can log in to this application to provide caB2B client user with basic configuration. Administrative module helps configure the caB2B client module. To install the caB2B Admin module the administrator should have intermediate knowledge of computers and basic shell commands and to configure cab2b using Administrative module the administrator needs some bioinformatics knowledge for efficient configuration of client.

The admin module is the platform where the backend is set for the user to query. An administrator can load the models which the user needs to query, configure the service instances, create customized categories, curate the best path between the categories, and create intermodal joins . This would help the user to query the application.

For eg : User wants to query caTissue and caArray so the administrator can first load the caTissue and caArray models for the user ,configure the service URL's from where the user can access caTissue and caArray data and then create categories, curate paths and define intermodel joins between caTissue and caArray models so that the user can query both caTissue and caArray effectively in a user friendly manner..

This document describes the process to install caB2B admin web module. To start with the cab2b admin module, refer to admin module user guide and to start with cab2b client refer to cab2b user guide and cab2b installation guide

# Chapter 2 Installation

## Prerequisites

1. JDK 1.6.03
2. JBoss 4.0.5.GA
3. MySQL 4.1.10
4. Ant 1.6.x

Note: JBoss and ANT installation should not contain spaces in their paths

## How to install caB2B admin?

### Verify required tools

Verify Java and Ant is installed on your machine. Refer to sections [Verify java installation](#) and [Verify ant installation](#). Verify that the MySQL database server is up and running.

Unzip **cab2bAdminInstaller.zip** in to a folder, say C:/cab2bAdmin/ (here after referred as <home\_dir>).

### Configure the following properties in <home\_dir>/conf/server.properties

jboss.home	Set this to the directory where JBoss is installed. For example, jboss.home=D:/jboss-4.0.4.GA/
database.server.ip	IP address of the machine on which the MySQL database is installed. For example, database.server.ip=22.44.55.66
database.server.port	Port on which the MySQL database is deployed. For example, database.server.port=3306
database.name	Name of the MySQL database. For example, database.name=cab2bAdminDatabase  <b>Note:</b> During the installation process this database will be created if it does not exist. If it is an existing database, then the install process will recreate the database.
database.username	User name to connect to the caB2B database.  <b>Note:</b> This user must have delete and drop permissions in the caB2B database.
database.password	Password for the caB2BAdmin database user.
indexurls	Index service url used to configure service urls.
cadsrurl	caDSR service url used to fetch and load models.

**Creating database**

Administrator configures the caB2B server database. Thus it is assumed that database already exists. If the database is not present, you need caB2B installer to install application and create the database schema.

**Note:** By default admin module password is set to “admin123”. In case you wish to change this password, run following database script by replacing **PASSWD** by the desired password.

```
UPDATE cab2b_user
SET password = PASSWD
WHERE name = 'Admin';
```

**Run command “ant deploy.jboss”**

1. Open command prompt and go to directory <home\_dir>/build
2. Run command “ant deploy.jboss”
3. This will invoke Ant target to install caB2B Admin module. This takes several minutes depending on the configurations. During the process, following steps are executed
  - a. Compiling the source
  - b. Creating a war file.
  - c. Deploying the application to JBoss

**Start JBoss Application Server**

- We recommend 1GB memory for cab2b-server. This can be done by setting - **Xms512m –Xmx1024m** java options in run.bat / run.sh
- If your application server is running behind the firewall, you need to modify run.bat / run.sh to provide proxy authentication. This can be done by setting following java options

**-Dhttp.proxyHost=your.proxy.host**

**-Dhttp.proxyPort=your.proxy.port**

**-Dhttp.nonProxyHosts=list of local IPs**

**-Dhttp.proxyUser=proxy.user.name**

**-Dhttp.proxyPassword=password**

For public machines these settings are not needed.

Note: To support jdk1.5 features in jsp pages, you have to make a change in JBOSS\_HOME/server/default/deploy/jbossweb-tomcat55.sar/conf/web.xml.

Following tag is commented out by default. You have to uncomment it.

<init-param>

```
<param-name>compilerSourceVM</param-name>  
<param-value>1.5</param-value>  
</init-param>
```

Once the “ant deploy.jboss” command is successfully executed, start the Jboss by using the <Jboss\_home>/bin/run.bat.

**Important note:**

There are models registered in caDSR for which there are no url entries in index service. In such case, you need to manually add service url to database. You can insert them using following script by replacing MODEL\_NAME and URL by appropriate values.

```
insert into cab2b_service_url(ENTITY_GROUP_NAME, URL,  
ADMIN_DEFINED) values('MODEL_NAME', 'URL', 1);  
insert into cab2b_user_url_mapping(SERVICE_URL_ID, USER_ID)  
(select max(url_id), 1 from cab2b_service_url);
```

To find MODEL\_NAME, you can use

```
select LONG_NAME from dyextn_entity_group;
```

## Chapter 3 Appendix

### Verify ant installation

Make sure that you have Apache-ant-1.6.x and its “bin” directory is in PATH. To verify it run command **ant** from any directory and it should not report it as invalid command. If you don't have ANT, it can be downloaded from <http://archive.apache.org/dist/ant/binaries/>

### Verify java installation

You need to have java 1.6.03 on your system. To check java, run command **java –version** from any directory and its response should be like *java version "1.6.0\_03"...* JDK-JRE can be downloaded from <http://java.sun.com/>

## Chapter 4 References

Java- version 1.6.03

[https://cds.sun.com/is-bin/INTERSHOP.enfinity/WFS/CDS-CDS\\_Developer-Site/en\\_US/-/USD/ViewProductDetail-Start?ProductRef=jdk-6u3-oth-JPR@CDS-CDS\\_Developer](https://cds.sun.com/is-bin/INTERSHOP.enfinity/WFS/CDS-CDS_Developer-Site/en_US/-/USD/ViewProductDetail-Start?ProductRef=jdk-6u3-oth-JPR@CDS-CDS_Developer)

caB2B G-Forge link

<https://gforge.nci.nih.gov/projects/cab2b/>

JBoss

[http://sourceforge.net/project/showfiles.php?group\\_id=22866&package\\_id=16942&release\\_id=416591](http://sourceforge.net/project/showfiles.php?group_id=22866&package_id=16942&release_id=416591)

MySQL download

<http://dev.mysql.com/downloads/mysql/4.1.html>

Ant 1.6.x

<http://archive.apache.org/dist/ant/binaries/>